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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/579,216	05/12/2006 Masaki Fukumori		Q94896	1179			
23373 SUGHRUE MI	7590 12/22/200 ON. PLLC	8	EXAMINER				
2100 PENNSY	LVÁNIA AVENUE, N	REDDY, KARUNA P					
SUITE 800 WASHINGTO	N, DC 20037		ART UNIT	PAPER NUMBER			
			1796				
			MAIL DATE	DELIVERY MODE			
			12/22/2008	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)					
	Office Action Comments	10/579,216	FUKUMORI ET AL.					
	Office Action Summary	Examiner	Art Unit					
		KARUNA P. REDDY	1796					
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address					
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Poperiod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).					
Status								
1)⊠	Responsive to communication(s) filed on 31 Or	ctober 2008						
· ·	Responsive to communication(s) filed on <u>31 October 2008</u> . This action is FINAL . 2b) This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
3/1	of Claims aim(s) 1 and 4-11 is/are pending in the application.							
	closed in accordance with the practice under z	A parte Quayle, 1999 O.D. 11, 40	0.0.210.					
Dispositi	on of Claims							
4)🛛	Claim(s) 1 and 4-11 is/are pending in the applic	cation.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠)⊠ Claim(s) <u>1 and 4-11</u> is/are rejected.							
7)	Claim(s) is/are objected to.		Examiner. 2.37 CFR 1.85(a). ected to. See 37 CFR 1.121(d). Action or form PTO-152. Cid in this National Stage					
8)□	Claim(s) are subject to restriction and/or	r election requirement.						
Applicati	on Papers							
9)□	The specification is objected to by the Examine	r.						
-	The drawing(s) filed on is/are: a) acce		Examiner.					
, —	Applicant may not request that any objection to the							
			held in abeyance. See 37 CFR 1.85(a). I if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex		, ,					
Priority ι	ınder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage					
2) Notic 3) Inform	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te					

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DETAILED ACTION

1. This office action is in response to amendment filed 10/31/2008. Claims 2-3 are cancelled. Accordingly, claims 1 and 4-11 are currently pending in the application.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

3. Claims 1, 4-8 and 10-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al (US 6, 472, 019 B1) in view of Di Giaimo (US 3, 496, 134).

The rejection is adequately set forth in paragraph 3 of office action mailed 7/31/2008 and incorporated here by reference.

4. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al (US 6, 472, 019 B1) in view of Di Giaimo (US 3, 496, 134) in view of Snyder (US 3, 617, 188).

The rejection is adequately set forth in paragraph 4 of office action mailed 7/31/2008 and incorporated here by reference.

Response to Arguments

5. Applicant's arguments, filed 10/31/2008, with respect to prior art rejections in paragraphs 3-4 of office action mailed 7/31/2008, have been fully considered but they are not persuasive. Specifically, applicant argues that (A) the 37 CFR 1.132 Declaration

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submitted demonstrates that use of a combination of epoxy compound and at least one weakly basic compound as HCI trapping compound provides for superior properties; (B) applicant believes that the examples 1-10 are representative of the scope of present claims.

With respect to (A), it is noted at the outset that HCI trapping compound is used to trap HCI produced by chloride containing monomer in the copolymer of present claims, and properties exhibited by the aqueous dispersions are thus dependent on the chloride content present in the chloride containing monomer. Given that, examiner's comments are directed to those dispersions containing the same chloride containing monomer in similar amounts in both inventive and comparative examples. For the sake of convenience, data from declaration which meets these criteria is presented below -

Component	IE 1	IE 2		IE 5	IE 8		IE 8	CE 4	CE 5	CE 6	CE 7
							: : :				
FA	150 g	150 g		150 g	150 g		150 g	150 g	150 g	150 g	150 g
Vinyl chloride	40 g	40 g		40 g	40 g		40 g	40 g	40 g	40 g	40 g
Non-ionic emulsifier	Yes	Yes		Yes	Yes		Yes	Yes	Yes	Yes	Yes
Epoxidized soybean oil	10 g	10 g		10 g	10 g		10 g	10 g	10 g	10.7 g	0 g
Sodium hydrogen carbonate /											
Sodium Carbonate	0.7g	0.7 g		1.5 g	0.7 g		0.9 g	0.7 g	0.7 g	0 g	10.7 g
H ₂ O repellency (Initial)		5	5	Ę	·	5	4	5	5	5	4
Oil repellency (Initial)	į	5	4	4		4	3	5	5	5	3
H ₂ O repellency (1 month at 50°C)		5	5	٤		5	4	4	4	4	4
Oil repellency (1 month at 50°C)		4	작	4		ব	3	3	3	3	3
Storage stability	Good	Good		Good	Good		Good	Good	Good	Good	Good
Mechanical stability	Good	Good		Good	Good		Good	Fair	Fair	Fair	Good
Chemical Stability	Good	Good		Good	Good		Fair	Fair	Fair	Fair	Poor
Yellowing	Good	Good		Good	Good		Good	Good	Good	Good	Good

As can be seen from the data, comparative examples 4-6 exhibit similar storage stability, chemical stability, yellowing, water and oil repellency after one month at 50°C; better initial oil and water repellency; while exhibiting only a slightly poor mechanical stability.

Thus, it is clear from the data submitted that comparative examples 4-6 exhibit superior properties on more counts than at least the inventive example 8. Therefore, applicant's argument that use of a combination of epoxy compound and at least one weakly basic compound provides for superior properties is without merit.

With respect to (B), while examples showing supposedly superior properties are presented only for one chlorine-containing polymerizable compound, one polymerizable compound having a perfluoroalkyl or perfluoroalkenyl group and one methacrylate group containing monomer in both inventive and comparative examples, present claims are directed to a broad genus for perfluoroalkyl or perfluoroalkenyl group containing monomer, chlorine-containing monomer and methacrylate group containing monomer. Thus, it is the examiner's position that data submitted is not commensurate with scope of present claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to KARUNA P. REDDY whose telephone number is

(571)272-6566. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-

8300.

Information regarding the status of an application may be obtained from the

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Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/K. P. R./

Examiner, Art Unit 1796

/Vasu Jagannathan/

Supervisory Patent Examiner, Art Unit 1796